01-24-02   O360

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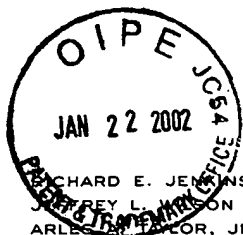
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January 22, 2002

> "Express Mail" mailing number: __EV023030535US__
> Date of Deposit __1/22/02__
> I hereby certify that this paper or fee is being deposited with the United
> States Postal Service "Express Mail Post Office to Addressee" service
> under 37 C.F.R. 1.10 on the date indicated above and is addressed to the
> Commissioner of Patent and Trademarks, Washington, D.C.
> Gwynette L. Moore

U.S. Patent and Trademark Office
BOX SEQUENCE
P.O. Box 2327
Arlington, Virginia 22202

Re: U.S. Patent Application Serial No. 09/954,773 for SOYBEAN SUDDEN
        DEATH SYNDROME RESISTANT SOYBEANS, SOYBEAN CYST
        NEMATODE RESISTANT SOYBEANS AND METHODS OF BREEDING
        AND IDENTIFYING RESISTANT PLANTS
        Our File No. 1268/2/2

Sir:

Please find enclosed the following:

1.   A Response to Notice to Comply with Requirements for Patent Applications
        Containing Nucleotide and/or Sequence Disclosures and Related
        Amendment (2 pages);

2.   Substitute Sequence Listing in paper (15 pages) and computer readable
        form;

3.   Statement That Sequence Listing and Computer Readable Copy are the
        Same;

4.   Copy of Notice to Comply with Requirements for Patent Applications
        Containing Nucleotide and/or Sequence Disclosures and Related
        Amendment and Raw Sequence Listing Data Report; and

5.   A return-receipt postcard to be returned to our offices with the U.S. Patent
        and Trademark filing stamp thereon.

Please contact our offices if there are any questions.

Although it is believed that no fee is due, the Commissioner is hereby authorized to charge any deficiencies of payment associated with the filing of this correspondence to Deposit Account No. **50-0426**.

Respectfully submitted,

JENKINS & WILSON, P.A.

Arles A. Taylor, Jr.
Registration No. 39,395
Customer No. Bar Code Label:

AAT/ajm

Enclosures

25297

PATENT TRADEMARK OFFICE

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Lightfoot et al. Group Art Unit: 1638

Serial No.: 09/954,773 Examiner: M. Kimball

Filed: September 18, 2001 Docket No.: 1268/2/2

For: SOYBEAN SUDDEN DEATH SYNDROME RESISTANT SOYBEANS, SOYBEAN CYST NEMATODE RESISTANT SOYBEANS AND METHODS OF BREEDING AND IDENTIFYING RESISTANT PLANTS

* * * * * * * * * * *

RESPONSE TO NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING NUCLEOTIDE AND/OR SEQUENCE DISCLOSURES AND RELATED AMENDMENT

U.S. Patent and Trademark Office
BOX SEQUENCE
P.O. Box 2327
Arlington, Virginia 22202

Sir:

This is responsive to the Notice to Comply dated November 20, 2001, having a 2-month term that expires on January 20, 2002. January 20, 2002 is a Sunday and Monday, January 21, 2002 is a federal holiday, and thus, the deadline is extended to Tuesday, January 22, 2002. A copy of the Notice is enclosed. Favorable reconsideration is respectfully requested in view of the following Remarks and substitute Sequence Listing submitted under 37 C.F.R. § 1.821-1.825.

AMENDMENTS

Please delete the Sequence Listing on pages 101-110, and replace the same with the substitute Sequence Listing attached hereto.

REMARKS

Status Summary

A substitute Sequence Listing is enclosed herewith as a paper copy and as a computer-readable form (CRF – floppy disk). The contents of the paper

and computer readable copies are identical. A statement to the same effect is also enclosed. The substitute Sequence Listing has been amended to explain the use of n residues in the Sequence Listing of the subject application as originally filed. No new matter is introduced in the substitute Sequence Listing.

Thus, applicants believe this Response places the subject application into compliance with the requirements of 37 C.F.R. 1.821-1.825. Applicants respectfully request that the substitute Sequence Listing be entered into the subject application.

DEPOSIT ACCOUNT

Although it is believed that no fee is due, the Commissioner is hereby authorized to charge any deficiencies of payment associated with the filing of this correspondence to Deposit Account No. 50-0426.

Respectfully submitted,

JENKINS & WILSON, P.A.

Date: 01-22-2002   By: _Arles A. Taylor, Jr._
Arles A. Taylor, Jr.
Registration No. 39,395

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1268/2/2   AAT/JB/ajm

Enclosures:
Substitute paper copy of Sequence Listing (15 pages)
Statement That Sequence Listing and Computer Readable Copy are the
　　　Same
CRF Sequence Listing (diskette)
Transmittal letter
Copy of Notice to Comply with Requirements for Patent Applications
　　　Containing Nucleotide Sequence and/or Amino Avid Sequence
　　　Disclosures
Postcard

25297
PATENT TRADEMARK OFFICE

UNITED STATES PATENT AND TRADEMARK OFFICE

COMMISSIONER FOR PATENTS
UNITED STATES PATENT AND TRADEMARK OFFICE
WASHINGTON, D.C. 20231
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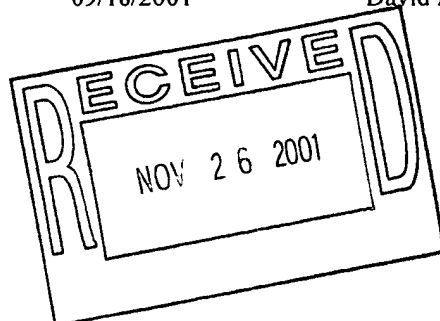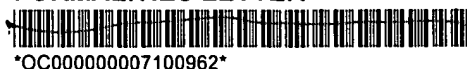| APPLICATION NUMBER	FILING/RECEIPT DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NUMBER
09/954,773	09/18/2001	David A. Lightfoot	1268/2/2

25297
JENKINS & WILSON, PA
TOWER BLVD
SUITE 1400
DURHAM, NC 27707

RECEIVED
NOV 26 2001

CONFIRMATION NO. 8934
FORMALITIES LETTER

OC000000007100962

Date Mailed: 11/20/2001

NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES

Applicant is given **TWO MONTHS FROM THE DATE OF THIS NOTICE** within which to file the items indicated below to avoid abandonment. Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

- A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 C.F.R. 1.822 and/or 1.823, as indicated on the attached copy of the marked -up "Raw Sequence Listing." Applicant must provide a substitute computer readable form (CRF) copy of the "Sequence Listing" and a statement that the content of the sequence listing information recorded in computer readable form is identical to the written (on paper or compact disc) sequence listing and, where applicable, includes no new matter, as required by 37 CFR 1.821(e), 1.821(f), 1.821(g), 1.825(b), or 1.825(d).

For questions regarding compliance to these requirements, please contact:

- **For Rules Interpretation, call (703) 308-4216**
- **To Purchase PatentIn Software, call (703) 306-2600**
- **For PatentIn Software Program Help, call (703) 306-4119 or e-mail at patin21help@uspto.gov or patin3help@uspto.gov**

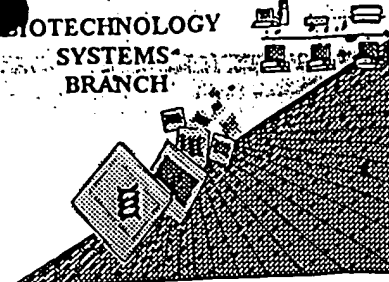---

A copy of this notice MUST be returned with the reply.

Customer Service Center
Initial Patent Examination Division (703) 308-1202
PART 1 - ATTORNEY/APPLICANT COPY

RAW SEQUENCE LISTING ERROR REPORT

OIPE
JAN 22 2002
PATENT & TRADEMARK OFFICE

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: ___09/954773___

Source: ___OIPE___

Date Processed by STIC: ___10/09/01___

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY
FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.
PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)
PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.
Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:
http://www.uspto.gov/web/offices/pac/checker

| ERROR DETECTED | SUGGESTED CORRECTION | SERIAL NUMBER: _09/954773_ |

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PT

1 ____ Wrapped Nucleics
Wrapped Aminos
: The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."

2 ____ Invalid Line Length
: The rules require that a line not exceed 72 characters in length. This includes white spaces.

3 ____ Misaligned Amino
Numbering
: The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.

4 ____ Non-ASCII
: The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.

5 ____ Variable Length
: Sequence(s) ____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.

6 ____ PatentIn 2.0
"bug"
: A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.

7 ____ Skipped Sequences
(OLD RULES)
: Sequence(s) ____ missing. If intentional, please insert the following lines for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i)   SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

     Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.

8 ____ Skipped Sequences
(NEW RULES)
: Sequence(s) ____ missing. If intentional, please insert the following lines for each skipped sequence
<210> sequence id number
<400> sequence id number
000

9 ____ Use of n's or Xaa's
(NEW RULES)
: Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents

10 ____ Invalid <213>
Response
: Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown is Artificial Sequence

11 ____ Use of <220>
: Sequence(s) ____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules

12 ____ PatentIn 2.0
"bug"
: Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

13 ____ Misuse of n
: n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.

AMC/MH – Biotechnology Systems Branch – 08/21/2001

RAW SEQUENCE LISTING   DATE: 10/09/2001
PATENT APPLICATION: US/09/954,773   TIME: 08:45:40

Input Set : A:\2seqlist.app
Output Set: N:\CRF3\10092001\I954773.raw

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      <110> APPLICANT: Lighfoot, David A.
  4         Gibson, Paul T.
  5         Merkem, Khalid
  7   <120> TITLE OF INVENTION: Soybean Sudden Death Syndrome Resistant Soybeans,
  8         Soybean Cyst Nematode Resistant Soybeans and Methods of
  9         Breeding and Identifying Resistant Plants
 11   <130> FILE REFERENCE: Sou Illinois 1268/2 Sequence Listing
C--> 13 <140> CURRENT APPLICATION NUMBER: US/09/954,773
C--> 14 <141> CURRENT FILING DATE: 2001-09-18
 16   <150> PRIOR APPLICATION NUMBER: 60/035,335
 17   <151> PRIOR FILING DATE: 1997-01-14
 19   <160> NUMBER OF SEQ ID NOS: 20
 21   <170> SOFTWARE: PatentIn Ver. 2.0
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ERRORED SEQUENCES

Errored
Must enumerate n's

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    691  <212> TYPE: DNA
    692  <213> ORGANISM: Glycine max
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    697  gcacacaccc tatctttcat aaaattacta cacttttttaa ttttttgtaat aaaaaaccta 180
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    701  agtgtcacct aaatagcttg gcgtaatcat ggtcatagct gtttcctgtg tgaaattgtt 420
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E--> 703  cctaatgagt gagctaactc acattaattg ccttgcgctc actgcccgct ttccagtcng 540
E--> 704  gaaacctgtc ctgccagctg cattaatgaa tcngccaacc cncggggana agcngtttgc 600
E--> 705  ntatgggcgc tcttnccgct tcctcgctca ntgactcgct gcgctcngtc nttcngntgc 660
E--> 706  cgcgaacggt atcancncac tcnaangnng taaatacggt tatccaccna accnngggga 720
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    718  tcttgtactt ttaacttta agtcatactc cctttggact catatataag caaaagagtg 180
    719  gtcttgtatg tcggacttaa atataagcaa atctaactaa ttttgtccta tttaatactt 240
    720  tcattcctaa aacacccttc atttaattct aattctattt ccaataactc ttttttattc 300
    721  atgataacaa gttccaatga aggacatttt agaaataacc ttattttta tttgagatta 360
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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/954,773

DATE: 10/09/2001
TIME: 08:45:40

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Output Set: N:\CRF3\10092001\I954773.raw

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E--> 727 anccggaagc ataaaagtgt taagccnggg gtgcctaatg agtgagctaa ctcacattaa 720
E--> 728 ttgcgttgcg ctcactgccc gcttccnatt cgggaaactg tcctgncanc tgcattaatg 780
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E--> 745 ccatcangag gttcatgtaa ttaaccaaac tagacgttga cttttggttt tatccttttg 540
       746 tagaatagca agcaagtcat tataaatctg gccattggga cagcttagtt taactcccgc 600
E--> 747 cgcaaatttg ttaaaatatt naataataat atcacctaaa atcatatttg tcanttcatt 660
E--> 748 ttgtttttang ttatatcaat tattatttt taccttacnt cctttataat ntcaatgatg 720
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       765 tagctatgtt aaaaatttgt gaatttcata aaagaaaaaa atattacagt attatatatt 480
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E--> 767 cttcgtctcg tattttctc aactctaccg acagcataaa caggttgtct ccttcntaat 600
E--> 768 aacaatcgtg gctgggaaca aaaatcgttt ttttagaaga atcngaaatc gtattgacgg 660
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E--> 770 tncncaacgg tttttggtg cgttnttta aaaaagttn aatttaatta aaatncn      777
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       775 <213> ORGANISM: Glycine max
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RAW SEQUENCE LISTING   DATE: 10/09/2001
PATENT APPLICATION: US/09/954,773   TIME: 08:45:40

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E--> 780 taaatttnaa tccatatttt antaaaaaaa aaaaggccna caaattntta aaattcctnc 180
E--> 781 nncnntttca tantnatttt tcctaggttt tttattncaa aanttaaaaa ttntattant 240
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E--> 783 cntnatccct caaggtcaac aaanttcana ncncggccna cttggccaat tcnccctata 360
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      795 <213> ORGANISM: Glycine max
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      800 aaagaagcat ataatacatt ttagtacatt tgtgaaattt ggtactccct ttggactcgt 180
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      807 tcggccgact tggccaattc ccctatagtg agtcgtatta caattcactg gccgtcgttt 600
E--> 808 tacaacgtcn tgactgggaa aacctggcgt tccccactta tcgccttgca gcacatcccc 660
E--> 809 tttcgccngc tggcgtnnta ccaaaaaggc cgcaccgatc gcccttcccn acagttgccc 720
E--> 810 cancctgaat ggcgaaatgg acccccctgt taccggccca tttaaacccc gnngggtgtt 780
E--> 811 gtggttnccc cnccn                                                   796
      813 <210> SEQ ID NO: 15
      814 <211> LENGTH: 782
      815 <212> TYPE: DNA
      816 <213> ORGANISM: Glycine max
      818 <400> SEQUENCE: 15
      819 attacgccaa gctattaggt gacactatag aaatactcaa gcttatgcat gcggccgcat 60
      820 ctagagggcc cggatctttt attaaaaatt taattgagtc tcttaattat tgaaaagttt 120
      821 aattaaatca tcaattatta aaaaaaatca accatatcct ttattgttta aaacattata 180
      822 attatgctct ttcaaccaac tctgttagtt taattgatag aagttttgta aatagatatt 240
      823 tttacataat ataaataatc tttttacata tattgcagcc aatgtaaaat attatctttt 300
      824 tacattcatt gcttttgatg taaaaaatta ttgttttaca tatgttgtat tgacaataaa 360
      825 tataaaaata tttatttttg tcaattagat taatgaactg atgatgaaaa agatataatt 420
      826 ataatatttt taataattag agaatttgat tgaacttttt aataattaaa aaattaaatg 480
      827 aatttttaat tataattaaa gggattaatt atatatataa gctttaatgt atttataatt 540
E--> 828 tttggtgtcc ncattaatat tataaaagga gtaagtaaa aaataataat taatattaca 600
      829 taaacaaaat aaaatgacaa tattattagg tgatattatt attaatattt taaacaaatt 660
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```
E--> 830 ncngcggagt taactaaagc tgtccaatgg ncagattata atgactgcct gcnattctnc 720
E--> 831 aaaaggataa aacaaaagtc cacgtctagt ttgggtaaat acatgaacct ccngaatggc 780
     832 tt                                                                   782
     834 <210> SEQ ID NO: 16
     835 <211> LENGTH: 801
     836 <212> TYPE: DNA
     837 <213> ORGANISM: Glycine max
     839 <400> SEQUENCE: 16
     840 acatgattac acaagctatt taggtgacat atagaatact caagcttatg catgcggccg 60
     841 catctagagg gcccggatcg cccttcccaa cagttgcgca gcctgaatgg cgaatggacg 120
     842 cgccctgtag cggcgcatta agcgcggcgg gtgtggtggt tacgcgcagc gtgaccgcta 180
     843 cacttgccag cgccctagcg cccgctcctt tcgctttctt cccttccttt ctcgccacgt 240
     844 tcgccggctt tccccgtcaa gctctaaatc ggggctccc tttagggttc cgatttagtg 300
E--> 845 ctttacggca cctcgacccc aaaaaacttg attagggtga tggttcacgt antgggccat 360
E--> 846 cgccctgata gacngttttt cgccctttga cnttggagtc cacgttcttt aatagtggac 420
     847 tcttgttcca aactggaaca acactcaacc ctatctcggt ctattctttt gatttataag 480
E--> 848 ggattttgcc gatttcggcc tattggttaa aaaatgagct gatttaacaa aaatttnacg 540
E--> 849 cgaattttaa caaaaatatt aacgcttacn atttcctgat ncggtatttt ctccttacnc 600
E--> 850 atctgtnccg tatttccacc gcatatggtg cactctcaat acaatctgct ctgatccnca 660
E--> 851 taatttaanc cancccgaa acccgcccaa caccccttaa aacnccctta acgggcttgt 720
E--> 852 ntgctcccgg catccgctta acaaanaaac ttttaaacgt ntcccggaac ngcatntttt 780
E--> 853 naaagttttc acccncctcc c                                               801
     855 <210> SEQ ID NO: 17
     856 <211> LENGTH: 798
     857 <212> TYPE: DNA
     858 <213> ORGANISM: Glycine max
     860 <400> SEQUENCE: 17
E--> 861 acatgattac gccaagctat taggtgacac tatanaatac tcaagcttat gcatgcggcc 60
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E--> 863 gcgccctgta gcggcgcatt aagcgcggcg ggtgtggtgg ttacgcncan cgtgaccgct 180
     864 acacttgcca gcgccctagc gcccgctcct ttcgctttct tcccttcctt tctcgccacg 240
     865 ttcgccggct ttccccgtca agctctaaat cggggggctcc ctttagggtt ccgatttagt 300
E--> 866 gctttacggc acctcnaccc cnaaaaactt gattagggtg atggttcacg tattgggcca 360
E--> 867 tcnccctgat agacagtttt tcgcccnttg acgttggagt ccacgttctt taatattgga 420
     868 ccttgttcca aactggaaca acactcaacc ctatctcggt ctattctttt gatttataag 480
E--> 869 ggattttgcc natttcggcc natnggttaa aaaatgagct natttaacna aaatttaacg 540
E--> 870 cgaattttaa caaaatattn aancttacaa tttcctnatg cgggtatttt ctccttacnc 600
E--> 871 atctgtgcgg tattttacaa ccgcatatgg tgcctctcaa ttacnanntg ctctgaatgc 660
E--> 872 cgcatatttt aaaccaacnc ngaaanccn tccaannacc cncttaancg ccccgaacgg 720
E--> 873 gttgntctgc cccngcatcc cttannaaac aacttttaac cttctcctgg aacttcnntt 780
E--> 874 tttnaaaggt ttccnccn                                                   798
     876 <210> SEQ ID NO: 18
     877 <211> LENGTH: 796
     878 <212> TYPE: DNA
     879 <213> ORGANISM: Glycine max
     881 <400> SEQUENCE: 18
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E--> 883 cgcatctaga gggcccggat ccaccccgtc ttccactgtt cgttactacg cgagcatcnc 120
     884 ggccctccac caccccgaca agatacttgg ccattggaat tcataaccca tcagcctgtc 180
```

```
      885 ccacgtccct tgtgtattct ggactctaaa ctcgacctct catcatctcc gccaaacaaa 240
E--> 886 ctcgtcctcg tacagtggac gggccaaccc cctgaggata ctacctggga gccntggtca 300
E--> 887 gaaatncctn acctttacca cctcnaggac aagtggtcct cncgggcgac ngtattgatn 360
E--> 888 acngttaccc ggaagatacc cagattgagc ccccacttac taagacnaag cccaacgttn 420
E--> 889 cccctcnaga cctgcttctt gaatgactac nanactgact cnangaagaa gctccaacca 480
E--> 890 ttngttnccn aagttattag ggtngttacc caattagttt agaacgttnt tccgttgaaa 540
E--> 891 aggctcatgt tacccccctc ncnntttttt aatncttgaa tanatnatta agaaggcctg 600
E--> 892 ccnnaggtta cnttactccc tccccnctct ctanatttcc tntangaagc tgccttcccc 660
E--> 893 cnaaattagg ggccattctc ttcctttccc gtcttttcac tcccctctgc tcttatcnng 720
E--> 894 aattcncctt gatnaacccc ccggttttng gatanaattg aattnacccc ccttcttgaa 780
E--> 895 aanagaagtt ttttcn                                                  796
      897 <210> SEQ ID NO: 19
      898 <211> LENGTH: 808
      899 <212> TYPE: DNA
      900 <213> ORGANISM: Glycine max
      902 <400> SEQUENCE: 19
E--> 903 acggcagtga ntgtaatncg actcactata gggcgaattg gccaagtcgg ccgagctcga 60
      904 attcgtcgac ctcgagggat cgccgaagta tcgactcaac tatcagaggt agttggcgtc 120
E--> 905 atcgagcgcc atctcgaacc gacgttgctg gccgtacatt tgtacngctc cgcngtggat 180
E--> 906 ggcggcctga agccacacng tgatattgat ttgctggtta cngtgaccgt aaggcttgat 240
E--> 907 gaaacnacgc ggcgagcttt gatccacnat gcccatnacc nagagtagac cagaatctaa 300
E--> 908 cacnaatcnc attgtcngat ataacnaaat gcttttaac acgagtgctt ccctnacan 360
E--> 909 tgttagattt gagcccanct cccttctcaa tgatacatnc aggatgaacn ntttgacatn 420
E--> 910 nctccaccna tttggnagtc tcatgcacca ccacattccc ncagtatgtt tgaaggtcnt 480
E--> 911 tggccngttc ccttananaa atattcctcc gccnnttcag gttgantctc attccnnaaa 540
E--> 912 atatatcccc ttgtccattt ccatctncaa ttcntnctgt tngaaagaac ntttgcttcc 600
E--> 913 agcnttcttc ccaaancnat ttttnggaaa ccctctgttt tcnaagaaat tgggttcanc 660
E--> 914 tccaattctn tccattccna aggggttcct ccactttaac cccgnatnan caaccaaggg 720
E--> 915 gaattgaaaa aacgggaaag ggaaaaaaat ngggcctact tncaagggaa nggcgccccc 780
E--> 916 tcaagnaaat ttncaaagaa gnananaa                                    808
      918 <210> SEQ ID NO: 20
      919 <211> LENGTH: 787
      920 <212> TYPE: DNA
      921 <213> ORGANISM: Glycine max
      923 <400> SEQUENCE: 20
E--> 924 ngncgacgcc ngtgnatgac cactataggg cgaattggcc aagtcggccg agctcgaatt 60
      925 cgtcgacctc gagggatcta tatataggct tgctaagggt agagagagga agactagaga 120
E--> 926 tttggatcna caatgccaat aacaaagagt tnaccagaat cnaacacaaa tcncattgtc 180
E--> 927 ngatataaca aaatgctttt taacacgagt gcttcacata acagtgtnag atttgagccc 240
E--> 928 aactcctttc tcaatgatac atccnggatg gaccaatttg acatgcatca ccnatttggc 300
E--> 929 agtctcatgc acaaccacat ttcccacant atgtntgang gtcattggcc ngttcactaa 360
E--> 930 ganaattatt cctccccagt tcangtngag tctcantccn naaatatagt ccctttgtcc 420
E--> 931 natttccntc tnaaatcctt cctgtggaaa gaccattgca tncagctttc tatcngaaac 480
E--> 932 aatatttgga aaccctctg tcttccaaga aatnggtgtc cnctcnattc tntcccatac 540
E--> 933 cnaagggttc atccagttta ccctgattag ancnnaaggg agtggaaana ccgggaaagg 600
E--> 934 aanaaaatng gccnacttcc aaggaaggcc cctccntnag aaaattttga gagagagaga 660
E--> 935 agagttcctt naccttttgcc tgcctcntta tattantcca gtnttatncc cncnanggtg 720
E--> 936 gttaccnaan cctttttccnc cnaatacngt ctnactaatt tggtactacc ccncccccttn 780
E--> 937 gtaccan                                                           787
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VERIFICATION SUMMARY   DATE: 10/09/2001
PATENT APPLICATION: US/09/954,773   TIME: 08:45:41

Input Set : A:\2seqlist.app
Output Set: N:\CRF3\10092001\I954773.raw

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L:13 M:270 C: Current Application Number differs, Replaced Current Application Number
L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:286 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:287 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:288 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:289 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:290 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:291 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:292 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:293 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:341 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:342 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:343 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:386 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:388 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:413 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:419 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:420 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:528 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:529 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:530 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:531 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:533 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:534 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:535 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:536 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:589 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:590 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:591 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:683 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:685 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:686 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:695 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:9
M:340 Repeated in SeqNo=9
L:716 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:10
M:340 Repeated in SeqNo=10
L:737 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:11
M:340 Repeated in SeqNo=11
L:758 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:12
M:340 Repeated in SeqNo=12
L:778 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:13
M:340 Repeated in SeqNo=13
L:798 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:14
M:340 Repeated in SeqNo=14
L:828 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:15
M:340 Repeated in SeqNo=15
L:845 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:16
M:340 Repeated in SeqNo=16
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VERIFICATION SUMMARY DATE: 10/09/2001
PATENT APPLICATION: US/09/954,773 TIME: 08:45:41

Input Set : A:\2seqlist.app
Output Set: N:\CRF3\10092001\I954773.raw

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L:861 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:17
M:340 Repeated in SeqNo=17
L:882 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:18
M:340 Repeated in SeqNo=18
L:903 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:19
M:340 Repeated in SeqNo=19
L:924 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:20
M:340 Repeated in SeqNo=20
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